

3. Atoms, elements and compounds



Atomic mass = 23

Proton number = 11

Neutron number = 12 (23 - 11)

mass of electron =

ISOTOPE: Atom of the same element with the same proton number but a different neutron number

- Have the same properties due to the same number of electrons on the outer shell

Radioisotope

- testing for leaks in pipes
- treating cancer

IONIC BONDING

Bonding: oppositely charged ions are strongly attracted by electrostatic force + involves electron transfer

metal + non metal

- metals give electrons to non-metals

Properties: strong bonds due to attractive forces

- conduct electricity
- high mp/bp
- charged particles
- soluble in water

macromolecular compounds

SILICON (IV) OXIDE

Properties

COVALENT BONDING

Bonding: Nuclei of atoms and the shared pair of electrons are strongly attracted by electrostatic forces

non metal + non metal

Properties: weak bonds = low mp/bp

- insoluble
- don't conduct



macromolecular compounds



Properties: strong bonds due to electrostatic forces, high mp/bp, soluble in water, conduct electricity



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